

XVII. *Description of new Cicindelidæ from Mashunaland.*  
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[Read March 28th, 1894.]

In my "Catalogue of the South African Cicindelidæ" (Trans. South Afric. Phil. Soc. vii., 1893), I expressed, as my opinion, that this catalogue could not be regarded as final, as Gazaland and Ovampoland would, in all probability, yield new forms of the wingless genera, *Myrmecoptera*, *Dromica*, and *Cosmema*; but I was not prepared to receive, a few months later, no less than five *Myrmecoptera* and one *Cosmema*, hitherto undescribed, and all found in one locality of the newly-opened-up northern territories of South Africa, which will be known hereafter as Zambezia.

All these species were captured round Salisbury at the beginning of the rainy season, by my esteemed correspondent, G. A. K. Marshall, Esq., who has gone lately to reside in Mashunaland. Matabeleland and Mashunaland would seem to be the home of *Myrmecoptera*, for besides the five new species here described, Mr. Marshall has also captured the hitherto extremely rare *M. polyhirmoides*, Bates, and *M. bilunata*, Dohrn. Mr. F. E. Selous, while recruiting at Buluwayo from the effects of a wound received in the Matabele war, captured there the equally rare *M. mauchi*, Bates, and *M. limpopoiana*, Pér. These two species were very abundant, I am informed by Mr. Selous, who, however, captured only one example of each species, as he had no means of storing them. Mr. Marshall also writes that *M. invicta* and some of the other species were fairly common. I have now recorded twelve species of *Myrmecoptera* from Matabeleland and Mashunaland, and two *Cosmema*.

The other Cicindelidæ captured near Salisbury by Mr. Marshall were *Megacephala regalis*,\* *Cicindela clathrata*,

\* Occurs also near Buluwayo.

*C. disjuncta*, *Jansenia angusticollis*, and *Cosmema lepida*.  
He had not met with any *Mantichora* as yet.

Gen. **CICINDELA**, Linn.

*C. mashuna*, sp. n.

Supra obscure cuprea, subnitida, labro flavo utrinque bipunctato; prothorace quadrato, subtiliter granulato, albido piloso; elytris granulosis, margine sat lata, utrinque breviter tri-hamata maculisque tribus pallide flavis notata.

Obscure bronze on the upper part, with the underside of the prothorax glowing-red, and the abdomen dark blue, legs glowing-red with the tarsi green; labrum elongate, convex, tridentate at the apex, white, and with two setigerous punctures on each side, one near the median tooth, the other near the outer angle; head aciculate, with a few white decumbent hairs; prothorax short, quadrate, rugose, covered with white decumbent hairs; elytra elongate, subparallel, finely granulose, and having on each side a moderately broad, pale-yellow marginal band, sending out three short, blunt rami, and also three round spots of the same colour on each side of the suture, the posterior one of which is nearly connected with the apex of the median marginal ramus, but the median one is not at all connected with the humeral ramus, and the basal one is placed far above it; the marginal band and also the dorsal round spots are edged with dark bronze. Length, 10; width, 3 mm.

This species, which might be taken at first sight for a variety of *C. marginella*, Dej., is easily distinguished by having a sub-basal spot on each side of the suture, which could not be the interrupted end of the lateral humeral ramus, whereas the other two spots following the sub-basal one might be the continuation of the two lateral spurs.

Hab. Mashunaland (Salisbury).

Gen. **MYRMECOPTERA**, Germ.

*M. angusticollis*, sp. n.

Supra æneo-nigra, subnitida, subtus cyanea; capite strigoso, labro albido, nigro-marginato; prothorace cylindrico, angusto, valde elongato, transverse plicato; elytris elongatis, pone medium ampliatis, profunde punctatis, utroque plaga humerali elongata,

fascia transversa post medium posita vittaque postica supra-marginali albis ornato.

Dark metallic blue, moderately shining on the upper part, underside cyaneous; labrum white, narrowly edged with black in the male, broadly in the female; joints of antennae foliate from the fifth to the apical one; head strigose; prothorax very narrow, cylindrical, nearly twice as long as broad, very slightly narrowed in front and behind, and finely plicate transversely; elytra very narrow at the base, gradually amplified from the base to two-thirds of the length, convex with the sutural part ending on each side in a spine, longer and sharper in the male, broadly and deeply pitted, with the punctures deeper in the interior part, and having on each side a white humeral narrow band, a discoidal transverse post-median band narrowed in the centre, and reaching from the outer margin to two-thirds of the width of the disk, and a supra-marginal narrow longitudinal band of the same colour, reaching from the rounding of the posterior part to the apex; legs cyaneous, with the knees slightly reddish. Length,  $12\frac{1}{2}$ -13; width, 3- $3\frac{1}{4}$  mm.

In shape, size, colour, and sculpture this species resembles much *M. spectabilis*, Pér.; the joints of the antennae in *M. angusticollis* are foliate from the fifth to the apical one, whereas in *M. spectabilis* only the 4th, 5th, and 6th joints are foliate; the prothorax is still narrower than in the last-named species, and the punctures on the elytra are not so broad; the humeral white band is similar, but the posterior one is shorter, and does not unite with the transverse discoidal one.

*Hab.* Mashunaland (Salisbury.)

*M. mashuna*, sp. n.

*Aeneo nigra*, supra subnitida; capite strigoso, labro nigro, macula albida in medio; prothorace cylindrico, transverse plicato; elytris elongato-ovatis, utrinque quinque-costatis, costis longis, sub-undulatis, interstitiis alveolatis.

Black, moderately shining, with a bluish tinge on the head and prothorax, elytra dark bronze; labrum black, with a median yellowish white patch in the male, this patch being hardly distinct in the female; head conspicuously plicate; prothorax cylindrical, longer than broad, distinctly constricted in front and behind, and transversely plicate; elytra elongated, gradually amplified from the base to about two-thirds of the length, convex, the male with two moderately long sutural spines, the female without any, and having

on each side five long raised lines, the outer two reaching from the base to about three-fourths of the length, the three discoidal ones somewhat shorter, apical part shagreened, intervals broadly foveate, the foveæ with a golden sheen, no supra-marginal white spot or band; underside and legs very dark blue. Length, 17-19; width, 4½-6 mm.

The nearest ally to this species is *M. bertoloni*; the shape of the prothorax is the same, but in *M. mashuna* the transverse folds are more raised and with a slightly broader interval, the costæ of the elytra reach much nearer to the apex, and the alveolæ on the disk are more regular.

*Hab.* Mashunaland (Salisbury).

*M. marshalli*, sp. n.

Æneo-nigra, elytris æneis, subnitidis; capite strigoso, labro nigro, in medio albo-maculato ♂; prothorace subcylindrico, antice posticeque valde constricto, transverse plicato, vitta media albotomentosa; elytris elongato-ovatis, utrinque quinque-costatis, costis post medium productis, interstitiis foveato-reticulatis, vitta basali alba in elyro singulo, plaga discoidalí post medium posita vittaque postica supra-marginali albis.

Black with a bronze tinge, elytra brassy, moderately shining, underside and legs black, with a bluish tinge; labrum black, with a broad median yellowish-white patch in the ♂; head very obliquely plicate between the eyes, and transversely so behind; prothorax subcylindrical, only a little longer than broad, with the discoidal part somewhat raised on each side, narrowed in front and behind, transversely plicate, and with a median band of white hairs reaching from apex to base; elytra elongated, gradually amplified from the base to about two-thirds of the length, ending in two sharp, long, sutural spines, convex, with five costæ reaching from the base to two-thirds of the length, but the first and fifth longer than the three discoidal ones, intervals foveato-reticulate, apical part shagreened, on each side a white line running on the second costa from the base to about one-fourth of the length, a more or less sublunar or rounded patch of the same colour placed at the apex of the three discoidal raised lines, and a narrow, supra-marginal posterior band, extending from the same height as the discoidal patch to the apex. Length, 19; width, 5 mm.

I know the male only. The female will probably prove

to be more ovate and more convex, with the labrum nearly totally black.

In general facies, this species approximates to *M. polyhirmoides*, but the markings are different from those of any other *Myrmeoptera* known up to date.

Hab. Mashunaland (Salisbury).

*M. formosa*, sp. n.

*Aeneo-nigra*, supra subnitida, capite strigoso, labro nigro, in medio albo-vittato; prothorace subquadrato, antice posticeque constricto, disco utrinque elevato, transverse plicato; clytris elongato-ovatis, utrinque quinque-costatis, costis undulatis, interstitiis secundo quartoque profunde-alveolatis, vitta basali alba medium disci utriusque attingente plaga quo triangulari ad apicem posita albis.

Bronze-black, moderately shining on the upper part, dark metallic-blue underneath; head conspicuously strigose; labrum black, with a median whitish longitudinal band in both sexes; prothorax nearly quadrate, narrowed in front and behind, with the disk raised on each side and plicate; elytra gradually amplified from the base to about two-thirds of the length, convex, ending in two moderately long apical spines, longer and sharper in the male than in the female, each elytron with five costæ, the first and second near the suture very wavy, and reaching from the base to two-thirds of the length, the third costa equally long, while the fourth and fifth extend further, reaching to three-fourths of the length; the intervals between the suture and the first costa and those between the second and fifth are broadly plicate, that between the first and second costæ divided into six or seven broad, deep foveæ, and the space between the fifth costa and the outer margin also broadly foveate; in the fourth interval runs a basal yellowish-white band, reaching about the median part of the disk, and there is a supra-apical, more or less triangular, broad patch of the same colour, placed below the fourth and fifth costæ; legs very dark blue. Length, 18–20; width, 5–7 mm.

Allied to *M. mauchi*, Bates, but differentiated by the broad and deep foveæ in the second interval on the elytra; the dorsal longitudinal white band is longer in proportion, and the apical one more broadly triangular.

Hab. Mashunaland (Salisbury).

*M. invicta*, sp. n.

*Aeneo-nigra, supra-subnitida; capite strigoso, labro nigro medio albo-vittato; prothorace quadrato, antice posticeque constricto, disco utrinque elevato, transverse plicato; elytris elongato-ovatis, quinque-costatis, interstitiis reticulatis linea basali medium disci haud attingente, plaga supra-apicali lata in singulo elytro albis.*

Bronze-black, moderately shining on the upper side, underside and legs cyaneous-black; head strigose; labrum black, with a median yellowish-white longitudinal band in both sexes; prothorax quadrate, narrowed in front and behind, with the disk raised on each side and plicate; elytra gradually amplified from the base to about two-thirds of the length, convex, ending in two acute spines, long in the male, short in the female, each elytron with five costæ reaching from the base to two-thirds of the length, with the first and second a little shorter than the other three, and the intervals reticulate; on the second costa runs a narrow white line, running from near the base to about one-third of the length, and behind, edging the dorsal costæ and extending more or less diagonally from the outer margin to the inner costa, is a sinuate silvery patch; this patch is generally broader in the ♂ than in the ♀, and I have seen a ♂ example where it had disappeared altogether. Length, 15–20; width, 5–6 mm.

A near ally to *M. mauchi*, Bates, but half the size; the sculpture of the elytra is identical, but the costæ are better defined; the inner one is shorter than the others, the fourth and fifth unite towards the apex in the male, but seldom in the female, while in the ♀ of *M. mauchi* the first and fifth costæ are the longest, and unite below the others, and the posterior patch in the last-named species is triangular, short, not transverse, nearer the apex, and below the fifth costa.

Hab. Mashunaland (Salisbury).

## Gen. COSMEMA, Bohem.

*C. dolosa*, sp. n.

Elongata, ænea, elytrorum lateribus cyaneis; capite strigoso, antennis subcompressis, foliatis; prothorace cylindrico, postice constricto, transverse plicato; elytris elongatis, postice leviter ampliatis, crebre profundeque punctatis, convexis, ad apicem utrinque bi-mucronatis, puncto humerali maculisque rotundatis supra marginem positis albis.

Dark bronze, with a greenish tinge; the lateral parts of the elytra cyaneous; underside and legs dark greenish-blue, tibiæ rufescent; antennæ subcompressed and slightly foliate; head finely strigose diagonally; labrum black, with the apical part somewhat yellowish in the male, totally black in the female; prothorax narrow, cylindrical, constricted behind, finely transversely plicate; elytra elongated, covered with deep, closely set, moderately broad punctures, convex, with the sutural part ending in two short spines on each side, as in *C. lepida*, Boh., but much shorter, and having on each side three ovate, supramarginal white spots, the first one humeral and very small, the median one a little elongated, and the posterior one ovate. Length, 10; width, 3 mm.

This species, owing to the tendency of the antennæ to become compressed and subfoliate, connects *Cosmema* with *Myrmecoptera*; like *C. lepida*, it has two spines on each side of the suture, but these spines are not so much developed; the supramarginal white markings are not unlike those of *C. elegantula*, Boh., but in *C. dolosa* the posterior one is a round or ovate patch, not a white line or band.

Hab. Mashunaland (Salisbury.)

